



Washington Fish and Wildlife Office

Pacific Region

Technical Reports:

Washington Fish and Wildlife Office Environmental Contaminants staff assisted in both performing and writing the following technical reports. Reports are written in support of fish and wildlife resources such as interjurisdictional fishes, threatened and endangered species, nonindigenous aquatic nuisance species, and other high priority aquatic resources. USFWS staff names are listed in **bold**.

The publications are in PDF format, and will require software such as Adobe Acrobat or other open source PDF viewers to read.

Title	Year	Author
<u>Chemicals of emerging and legacy concern in tissues of white sturgeon (<i>Acipenser transmontanus</i>) in the Columbia River near Hanford, WA. (2009)</u>	2016	Nilsen, E.B., Davis, J.W. , and Hapke, W.B.
<u>Investigation of Contaminants in Feeds and Fish at FWS Pacific Region National Fish Hatcheries and the Ramifications to Human and Ecological Health</u>	2012	Davis, J.W. and Gannam, A.
<u>Chemical Contaminants, Pathogen Exposure and General Health Status of Live and Beach-Cast Washington Sea Otters (<i>Enhydra lutris kenyoni</i>)</u>	2010	Brancato, M.S., Milonas, L., Bowlby, C.E., Jameson, R. and Davis, J.W.
<u>Assessment of Contaminant Exposure and Effects on Ospreys Nesting along the Lower Duwamish River, Washington, 2006–07</u>	2009	Johnson, B. L., Henny, C. J., Kaiser, J. L., Davis, J. W. , and Schulz, E. P.
<u>Trumpeter Swan Lead Shot Poisoning Investigation in Northwest Washington and Southwest British Columbia: Environmental Contaminants Program Off-Refuge Investigations Project ID: 20031003.1</u>	2009	Schexnider, C. , Smith, M. and Wilson, L.
<u>Summary of Kootenai River White Sturgeon Studies</u>	2008	Campbell, J. and Davidson, T.
<u>Recurrent Die-Offs of Adult Coho Salmon Returning to Spawn in Puget Sound Lowland Urban Streams</u>	2007	McCarthy, S., J. Spromberg, J. Incardona, B. Feist, J. McIntyre, J. Labenia, M. Myers, L. Rhodes, G. Ylitalo, T. Collier, N. Scholz, L. Reed, K. Lynch, and Davis, J. W.



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Peer Reviewed Journals:

The following is a list of studies published in peer reviewed journals that Washington Fish and Wildlife Office Environmental Contaminants staff assisted in both performing and writing. USFWS staff names are listed in **bold**.

Citation	Year
Feist, B.E., Buhle, E.R., Baldwin, D.H., Spromberg, J.A., Damm, S.E. , Davis, J.W. , and Scholz, N.L. (2017). Roads to ruin: conservation threats to a sentinel salmon species across an urban gradient. Ecological Applications, 27: 2382–2396. doi:10.1002/eap.1615. Click to View	2017
McIntyre, J.K., Edmunds, R.C., Anulacion, B.F., Davis, J.W. , Incardona, J.P., Stark, J.D., and Scholz, N.L. (2016). Severe coal tar sealcoat runoff toxicity to fish is prevented by bioretention filtration. Environmental Science and Technology, 50:1570-1578. Click to View	2016
McIntyre, J.K., Edmunds, R.C., Redig, M.G., Mudrock, E.M., Davis, J.W. , Incardona, J.P., Stark, J.D., and Scholz, N.L. (2016). Confirmation of stormwater bioretention treatment effectiveness using molecular indicators of cardiovascular toxicity in developing fish. Environmental Science and Technology, 50:1561-1569. Click to View	2016
Spromberg, J.A., Baldwin, D.H., Damm, S.E. , McIntyre, J.K., Huff, M., Davis, J.W. , and Scholz, N.L. (2015). Coho salmon spawner mortality in western U.S. urban watersheds: bioinfiltration prevents lethal stormwater impacts. Journal of Applied Ecology, 53: 398-407. doi: 10.1111/1365-2664.12534. Click to View	2015
McIntyre, J.K., Davis, J.W. , Hinman C., Macneale, K.H., Anulacion, B.F., Scholz, N.L. and Stark, J.D. (2015). Soil bioretention protects juvenile salmon and their prey from the toxic impacts of urban stormwater runoff. Chemosphere 132:213-219. doi:10.1016/j.chemosphere.2014.12.052. Click to View	2015
McIntyre, J.K., Davis, J.W. , Incardona, J.P., Stark, J.D., Anulacion, B.F., Scholz, N.L. (2014). Zebrafish and clean water technology: Assessing soil bioretention as a protective treatment for toxic urban runoff. Science of the Total Environment 500–501 (2014) 173–180. Click to View	2014

Washington Fish And Wildlife Office Peer Reviewed Journal Publications Continued

<p>Trumble, S.J., Robinson, E.M., Noren, S.R., Usenko, S., Davis, J. and Kanatous, S.B. (2012). Assessment of Legacy and Emerging Persistent Organic Pollutants in Weddell Seal Tissue (<i>Leptonychotes weddellii</i>) near McMurdo Sound Antarctica. Science of the Total Environment, 439, 275–283.</p> <p style="text-align: center;">Click to View</p>	2012
<p>Feist, B.E., Buhle, E.R., Arnold, P., Davis, J.W., and Scholz, N.L. (2011). Landscape Ecotoxicology of Coho Salmon Spawner Mortality in Urban Streams. PLoS ONE 6(8): e23424. doi:10.1371/journal.pone.0023424.</p> <p style="text-align: center;">Click To View</p>	2011
<p>Scholz, N.L., Myers, M.S., McCarthy, S.G., Labenia, J.S., McIntyre, J.K., Ylitalo, G.M., Rhodes, L.D., Laetz, C.A., Stehr, C.M., French, B.L., McMillan B., Wilson, D., Reed, L., Lynch, K., Damm, S., Davis, J.W., and Collier, T.K. (2011). Recurrent Die-Offs of Adult Coho Salmon Returning to Spawn in Puget Sound Lowland Urban Streams. PLoS ONE 6(12): e28013. doi:10.1371/journal.pone.0028013.</p> <p style="text-align: center;">Click To View</p>	2011
<p>Walker, K.A., Davis, J.W. and Duffield, D.A. (2008). Activity Budgets and Prey Consumption of Sea Otters (<i>Enhydra lutris kenyoni</i>) in Washington. Aquatic Mammals 34(4):393-401.</p> <p style="text-align: center;">Click To View</p>	2008
<p>Labenia, J.S., Baldwin, D.H., French, B.L., Davis, J.W. and Scholz, N.L. (2007). Behavioral impairment and increased predation mortality in cutthroat trout exposed to carbaryl. Marine Ecology Progress Series 329:1-11.</p> <p style="text-align: center;">Click To View</p>	2007
<p>Maule, A.G., Gannam, A.L. and Davis, J.W. (2007). Chemical Contaminants in Fish Feeds Used in Federal Salmonid Hatcheries in the USA. Chemosphere 67:1308-1315.</p> <p style="text-align: center;">Click To View</p>	2007
<p>Dubey, J.P., Zarnke, R., Thomas, N.J., Wong, S.K., Van Bonn W., Briggs, M., Davis, J.W., Ewing, R., Mense M., Kwok, O.C.H., Romand, S., Thulliez, P. (2003). Toxoplasma gondii, Neospora caninum, Sarcocystis neurona, and Sarcocystis canis-like infections in marine mammals. Veterinary Parasitology 116 (2003) 275–296.</p> <p style="text-align: center;">Click to View</p>	2003

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